



Volkswagen MIB3 Infotainment System Software Update Guide

Version: March 13, 2024

**Note: This is an unofficial guide use at your
own risk**

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Read First

Risks

- Any update process is risky due to the possibility of failure VW itself tells technicians to connect a 70amp battery charger just to avoid the risk of the battery depleting, please be careful and following all instructions

Recovery

- If you brick your infotainment there may or may not be a way to manually restore it, it may also have a backup boot mode to the original version that came with the car, but in the worst-case scenario you may have to buy a new infotainment controller or infotainment screen depending on which you have
- The update process does some checks before it runs and seems to have multiple fail safe checks

Software Package vs Update Package

This guide is based on installing an updated software package but will be expanded later to include updates.

***NOTE* Throughout this guide I refer to the procedure as installing an update even though it's the full software package. I'm working on making this more clear.**

- This guide is based on a complete software package for the car, including multiple languages and software you may not need
- The installation for the update package uses a different procedure that has not been added yet
- You can tell the difference as the full software package size for the 10" infotainment system in a 2022 Golf GTI is nearly 10GB whereas an example update package for the 8.5" infotainment system is 400~MB

Requirements

USB Flash Drive

Recommended USB flash drive

Samsung USB-C 128GB drive. This drive is fast, USB-C, large, comes formatted in FAT32, and it's relatively inexpensive (\$15~). If you purchase this no further steps are needed to prepare the USB flash drive.

<https://www.amazon.com/dp/B09WB2RPS4> (This is **not** an affiliate link).

Using your own USB flash drive

- The USB flash drive must have enough space to store the extracted archive (normally 16GB would cover any update)
- The USB drive doesn't have to be USB-C but to use USB-A you'll need any adapter (sometimes A->C adapters have to be flipped to function)
- The reason you want a fast drive is the shorter the update time, the lower the probability of some unknown event causing it to fail as it's flashing. Copying the data from the USB drive is only a small portion of the update but the risk to save \$15~ compared with the cost of a new infotainment (\$400~ used or \$1000 new + labor, unless there is some recovery procedure)

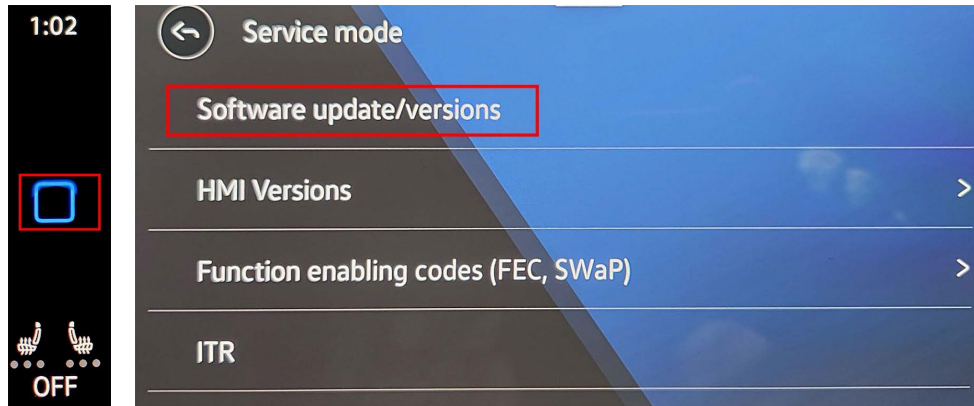
***NOTE* Fake USB drives exist**

USB flash drives being sold by third party sellers on Amazon and other stores that are actually smaller than stated. For example, a 16GB drive could actually be 8GB or 10GB. When you write data to one of these drives that goes beyond the real value it will appear to work however the data won't actually be written or it will overwrite data. This is even more serious because if the upgrade process fails you may not be able to recover your infotainment system.

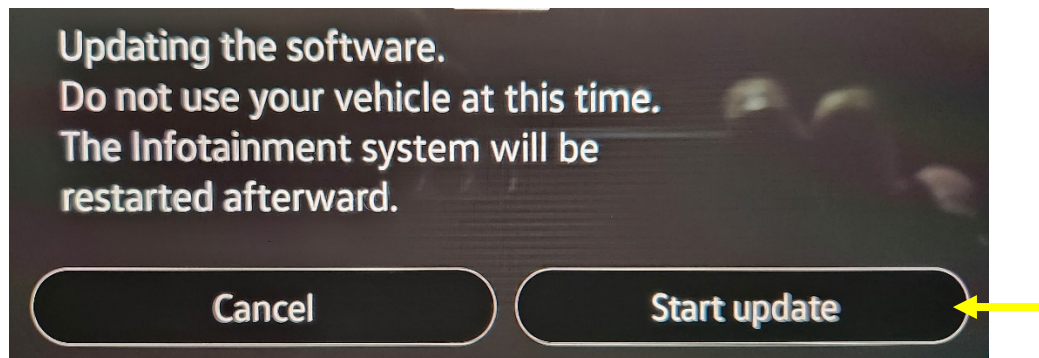
Step 1: Determine Your Software Version

We need to determine which software package version you currently have in order to locate any potential updates.

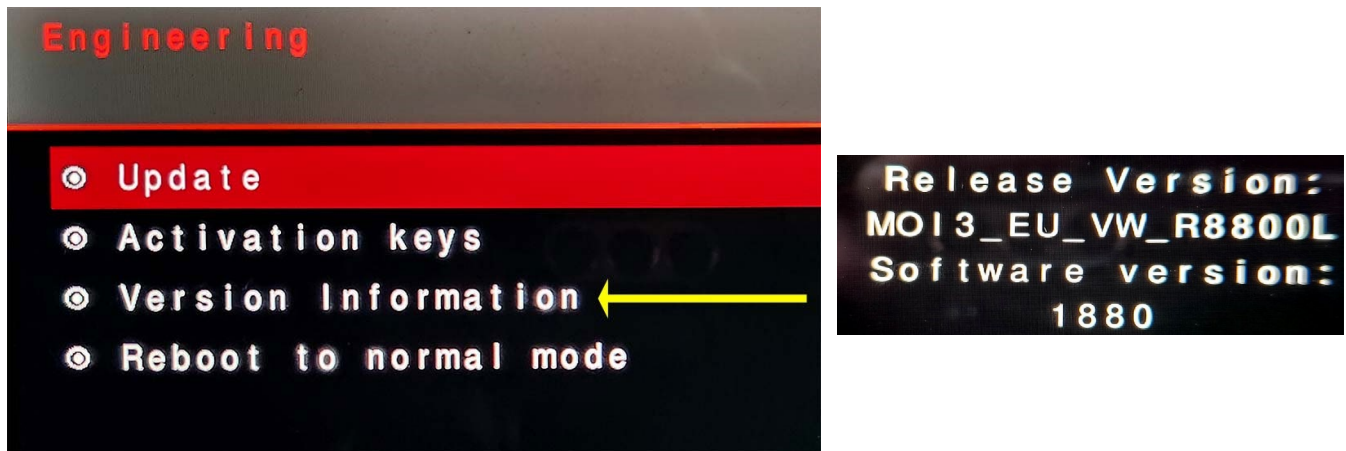
1. Press and hold the menu button for a few seconds until you see the “Service mode” menu.
2. Press “Software update/versions”.



3. Confirm you want to go into “Engineering” mode by clicking “Start update”.



4. The infotainment will restart. Once you are in the Engineering Mode select Version Information. You will now see the specific train of software.



The example infotainment reports the following:

Release Version: MOI3_EU_VW_R8800L

Software Version:1880

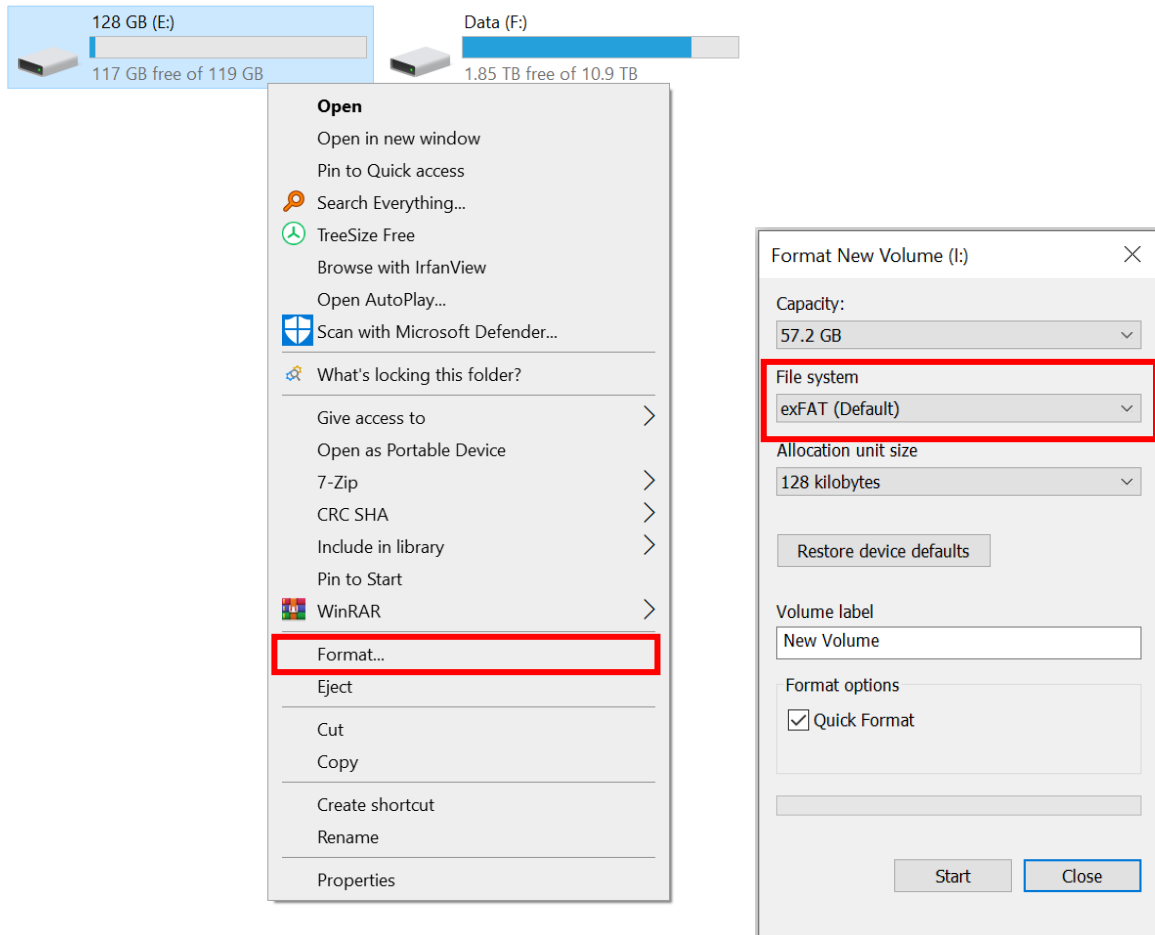
MOI3	Infotainment hardware type <ul style="list-style-type: none">• There are multiple infotainment hardware types in the MIB3 family.• MOI3 is used in the 10 inch infotainment system in the mk8 Golf• MEN3 is used in the 8.5 inch infotainment system in the mk8 Golf
EU	Region <ul style="list-style-type: none">• North American cars (NAR North American Region) use the EU region software for the infotainment. Just match whatever it says.
VW	Make <ul style="list-style-type: none">• The MIB3 infotainment system is also used in Skoda, Audi, and other Volkswagen AG products.
R8800L	Package build number
1880	Package version number

Step 2: Prepare the USB Drive

Windows

1. Format the drive as extFAT or FAT32. **The preferred file system is exFAT** (technical reason: It's a journaled file system so corruption is less likely).

NOTE Windows doesn't support formatting drives larger than 32GB for FAT32 using the graphical interface. You can use third party tools or the command line but there's no reason to deal with this when you can just use exFAT



Mac

The USB drive needs to be formatted as extFAT. Apple has an excellent support page that already shows how to do this.

<https://support.apple.com/en-ph/guide/disk-utility/dsku365552c7/mac>

Delete hidden files/folders

There is an additional requirement for Mac users. The system will create a number of hidden files that need to be removed as it appears the update fails if any additional files are present (unconfirmed). The following is the procedure to remove them.

***NOTE* If you remove the drive then reinsert it the OS might recreate the files and you'll need to perform this procedure again. Keep the drive inserted as later in this guide you'll be copying files to it.**

2. Open a terminal and type without hitting enter.

```
dot_clean -m
```

3. Drag the USB drive icon on to the terminal window and release. This should cause the path to appear after the command. For example, if my USB drive is called "MyFlashDrive" this is what should appear. Then hit enter.

```
dot_clean -m /Volumes/MyFlashDrive
```

***NOTE* If the name has spaces, slashes, etc. you need to encase the entire line in quotes:
dot_clean -m "/Volumes/My Flash Drive" to avoid this just name the drive with letters and no spaces.**

***NOTE* Apparently having any other files or folders in the root of drive causes the update to fail. That includes hidden files and folders. I haven't tested why it fails but symbols (like the dot "." that is placed before files on MAC/Linux to denote they are hidden are first in the alphabetical order).**

Step 4: Download the Update

1

MIB Solution

+ New

Q

mib

▷ M.I.B

▷ M.I.B_Backup

▷ Maps

▼ MQB_Solution 2

▷ Datasets

▷ MEN2 - LG

▷ MEN3

▷ MH2P - ALPINE

▷ MHI2 - HARMAN

▷ MHI3

▷ MHS2 - DELPHI MIB-HS

3 ▼ MOI3

▷ 4 LG

▷ Preh

▷ MPR3

▷ MS2p

1. Head over to <https://mibsolution.one/#/1/9> and login using the provided password (which is normally guest/guest but you can find it in the welcome message).

2. Select "MQB_Solution".






3. Select the directory for the infotainment hardware type you have.

4. Select infotainment manufacture if needed.

***NOTE* Some directories have a subdirectory for the infotainment manufacture. In the screenshot we see that "MOI3" have two directories "LG" and "Preh". You don't need to know the type simply check the files in each to see which matches the region and make.**

5. Check if an updated version for your car exists.

You'll want to find the latest software package that matches the release version we found in the previous step. Sort the files by date and starting the from newest backwards look for the first file that matches the region and make OR look for the latest version which is in parentheses.

	MOI3_EU_VWMQB_P30600P_3G0919360QC	7Z	4.5 GB	May 25
	MOI3_EU_SE_R9400L(1940)_575919360AN	7Z	9.1 GB	May 14
	MOI3_EU_SE_R8410L(0841)_575919360B	7Z	4.5 GB	May 14
	MOI3_RECOV_R9900L_5FA919360AM	7Z	490 KB	May 11
	MOI3_EU_VW_R9410L(1941)_3G0919360TG	7Z	9.7 GB	Apr 15 ←

6. Download the file.

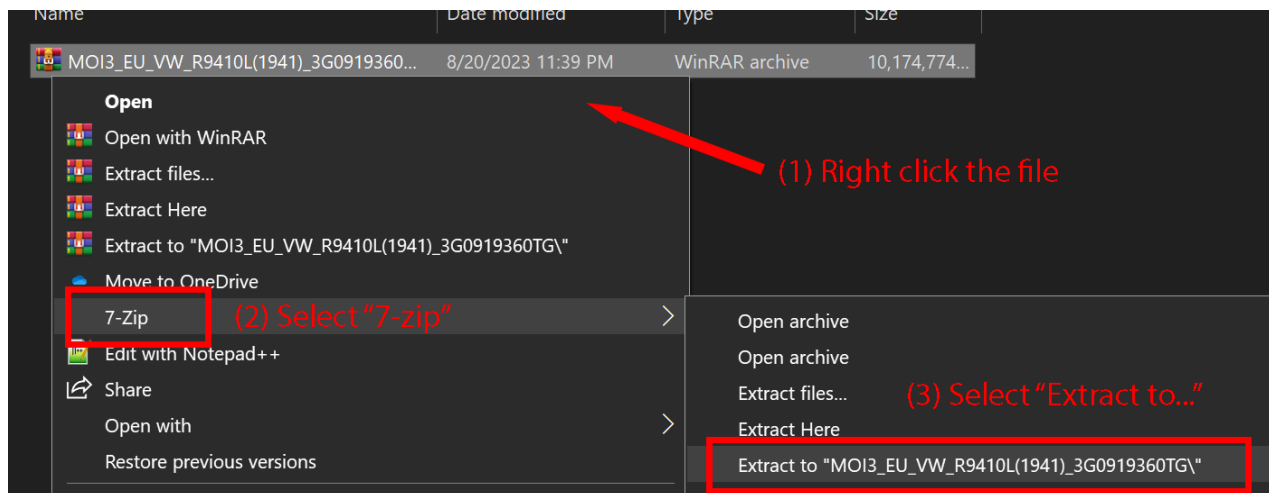
Step 5: Copy the Update to the USB Drive

1. Extract the software package to its own directory (this guide assumes you are using 7-zip).

Some archives on this website are compressed with 7-zip. Your built-in operating system archive software may not work with this format. The 7-zip software is freeware and can be downloaded at <http://7-zip.org>. This software for Windows will work with 7z and zip archives.

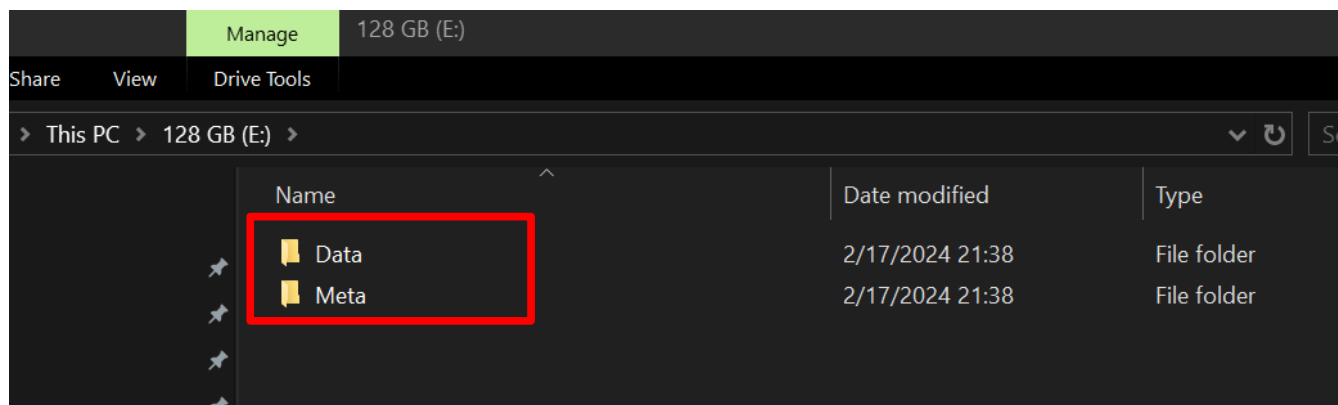
NOTE Mac users can download “unarchiver” from the Mac Store. This supports 7-zip.

NOTE If the 7-zip archive has an error extracting then you should attempt to download the file again. Do not use partially extracted software packages.



2. Copy the contents of the archive to the USB flash drive.

You'll need to copy the root of the software package not the folder you may have extracted it to or created. What you see in the red box is what needs to be dragged or copy & pasted to the USB flash drive.



not If the copy process fails delete everything in the USB flash drive and start again.

Step 6: Installation

Preparation **[IMPORTANT]**

The update time is based on the following:

- The speed at which the infotainment can read the USB drive
- The size of the software package

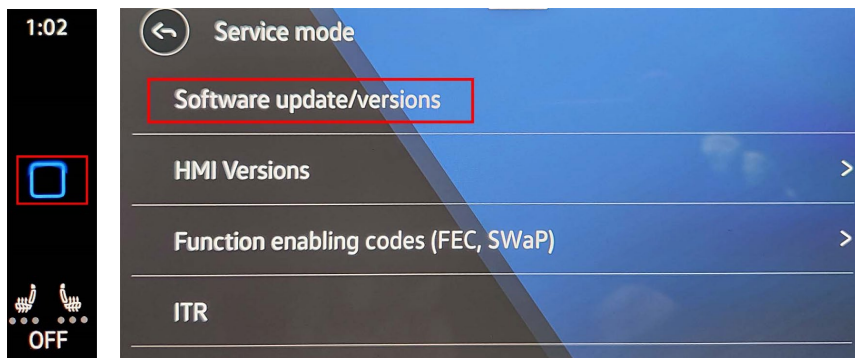
The software package installation must not be interrupted or you could damage your infotainment. **VW officially recommends that you connect a 70amp battery charge while performing the update.** The goal is to make sure that your 12v battery doesn't die, however many have performed this update without a charger connected. **This is why a fast USB drive was recommended in this guide.**

- If your car has been sitting for a while drive around for 15 minutes or use a battery charger while updating
- Disconnect or turn off aftermarket amplifiers, line out converters, powered subwoofers, etc
 - These may go on automatically when they detect an audio signal or when the car is on. Disconnect any additional aftermarket power sources or turn those devices off
 - This isn't needed if you are using a high amperage charger to maintain the battery as VW recommends.

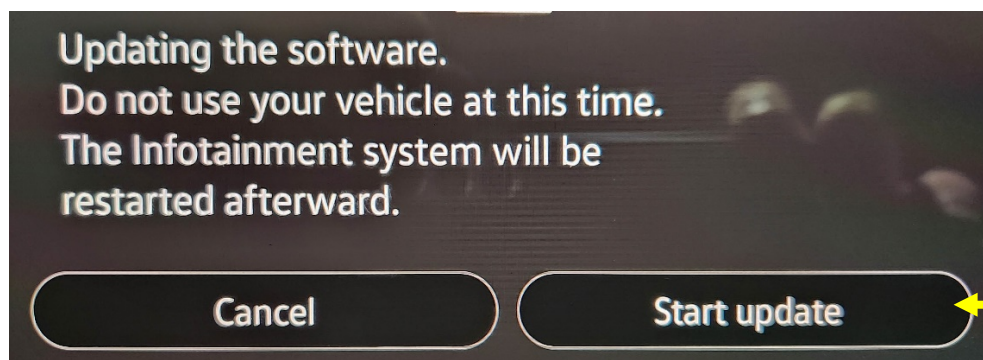
***NOTE* BETTER SAFE THAN SORRY IF THE CAR LOSESS POWER WHILE UPDATING THERE IS A CHANCE YOUR INFOTAINMENT WILL BE BRICKED**

Start the Update

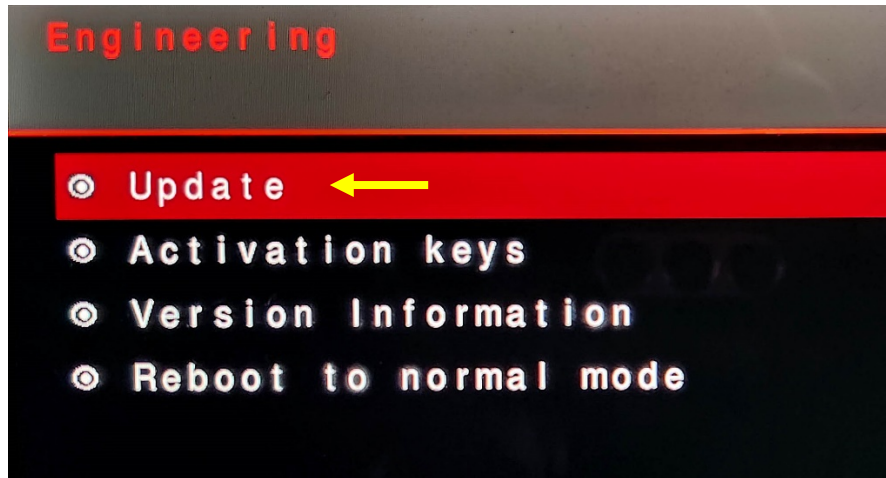
1. Follow the battery preparation section
 2. Get into the car and close the door
 3. Place the keyfob, uncovered, on the passenger seat or on top of the front console
 4. Turn the car on to accessory mode
- *NOTE* DO NOT START THE CAR BEFORE OR DURING THE UPDATE PROCESS.**
5. Turn off the headlights, disable automatic windshield wipers, and climate control
 6. Insert the USB stick into either of the front USB-C ports.
 7. Press and hold the menu button for a few seconds until you see the *Service Mode* menu.
 8. Press *Software update/versions*.



9. Confirm you want to go into "Engineering" mode by selecting "Start update".

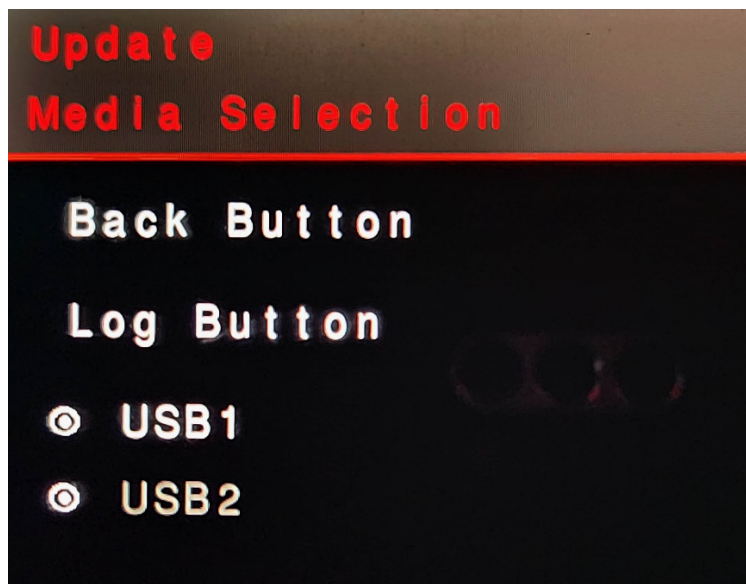


10. The infotainment will restart. Once you are in the *Engineering Mode* select “Update”.



11. Select the USB port where the USB flash drive is plugged into.

Select “USB 1” for the left port and “USB 2” for the right port. If you select wrong it will clearly indicate it can’t find any update files.

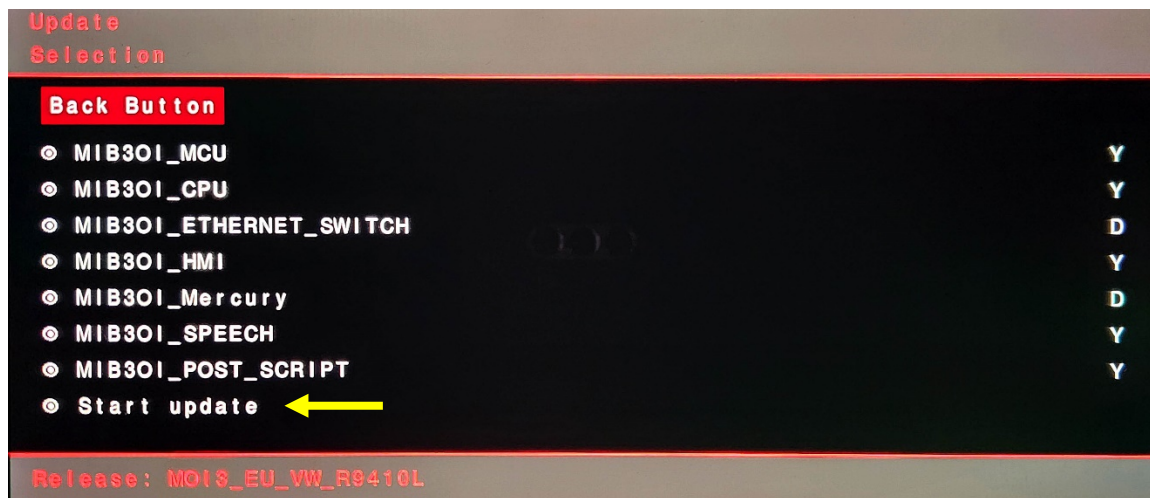


12. Software package list confirmation screen.

This allows you to toggle the different pieces of software that can be updated. “Y” means that it will be updated “D” means it won’t. It will automatically detect what should be updated and unless you have some specific reason to don’t toggle any of these.

On the bottom of the screen you’ll see the version you are installing. This is a great final check just in case you were playing around with random versions.

Select “Start update” to move to the final confirmation screen.

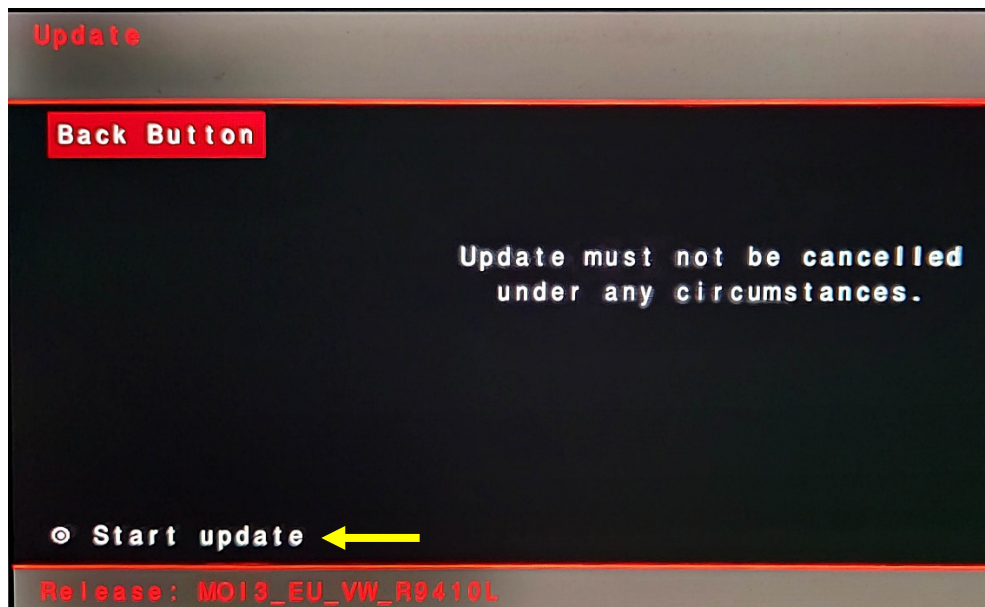


13. Select “Start update” on the final confirmation screen.

WARNING

NOTE This is the last possible chance to cancel the update, once you hit “Start update” the update process cannot be interrupted

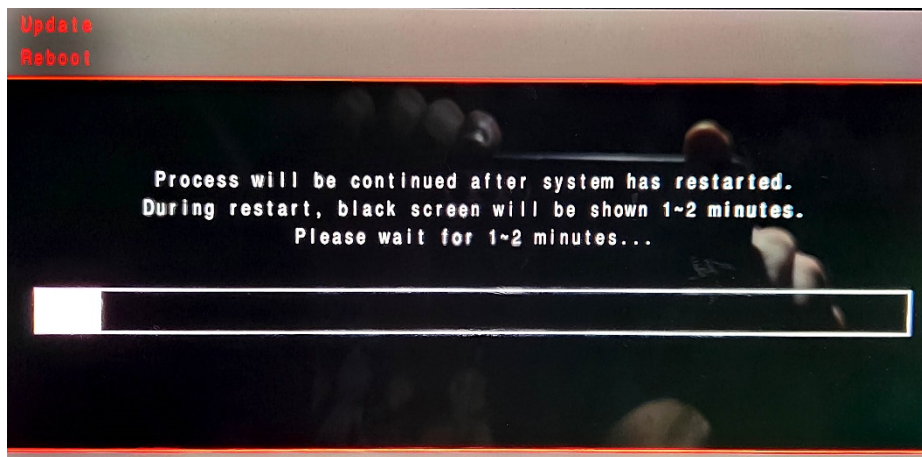
- DO NOT **SHUT THE CAR OFF** WHILE UPDATING
- DO NOT TURN THE **ENGINE ON** WHILE UPDATING
- DO NOT INTERACT WITH THE INFOTAINMENT WHILE UPDATING
- KEEP THE KEYFOB IN THE SAME POSITION



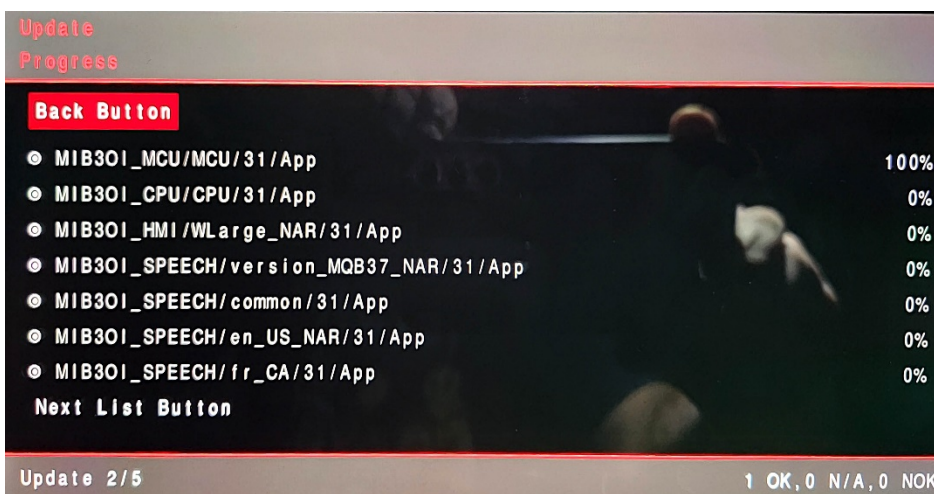
14. Wait for the update process to complete.



The update will go through several screens depending on the package being updated.



The infotainment system will also reboot every so often.

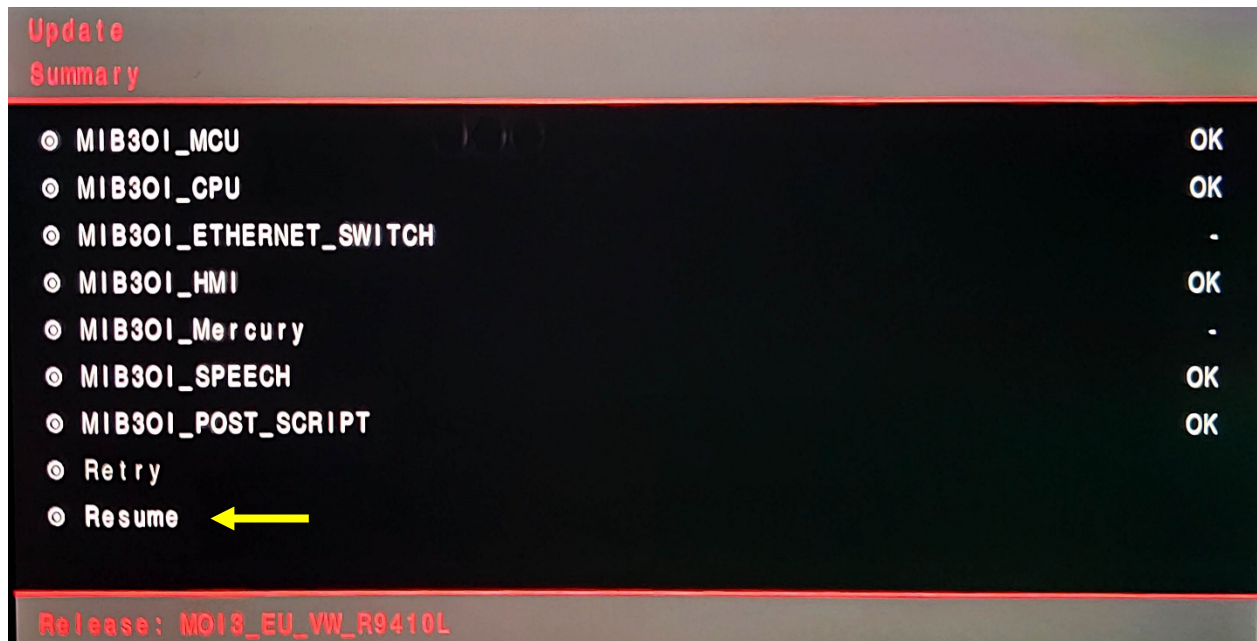


The main “Update Progress” screen shows the overall status for each package. Do not be alarmed about how.

15. Complete the update

Upon completion you'll see this screen which shows the status of each software package installation. If the software wasn't selected to be installed there will be a "-" (dash).

Select "Resume" to finish the process. Once the infotainment system reboots the entire process is complete.



Post Update Notes

It appears that no settings should change after the update including infotainment and module adaptations.

Once you start the car the check engine light and various sensor warnings, drive normally to clear them. This is a recalibration process that occurs on software changes and if you disconnect the battery.

**If you have any questions or suggestions go to vwvortex.com
and look for this guide in the MK8 GTI section.**

THANKS!

Appendix

Infotainment System Differences in MK8 Golfs

